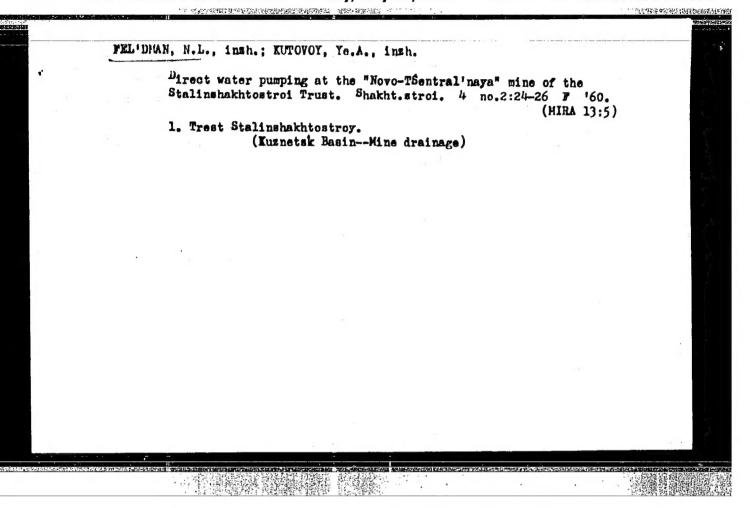
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FEL'DMAN, N.L., inzh.; CHILIKIN, A.M., inzh.

Efficient work organization layout for mining inclined workings of commiderable length. Shakht.stroi. 6 no.2:23-24 F '62. (MIRA 15:2)

1. Gornoprokhodcheskoye upravleniye No.13 tresta Donetskshakhtustroy. (Coal mines and mining)

FEL DMAN, N.L., inzh.; CHILIKIN, A.M., inzh.

Reinforcing junctions and workings of large sections with archtype pliable supports. Shakht. stroi. 7 no.4:27 Ap 163. (MIRA 16:3)

1. Stroitel'nyy uchastok No.13 tresta Donetskahakhtostroy.

FEL'DMAN, N. L.

"Comparative Toxicity for Cells of Diffused and Granular Dyes," Dokl. AN SSSR, 59, No.5, 1948

Lab. Cytology and Lab. Histology, Inst. Exptl. Med., AMS

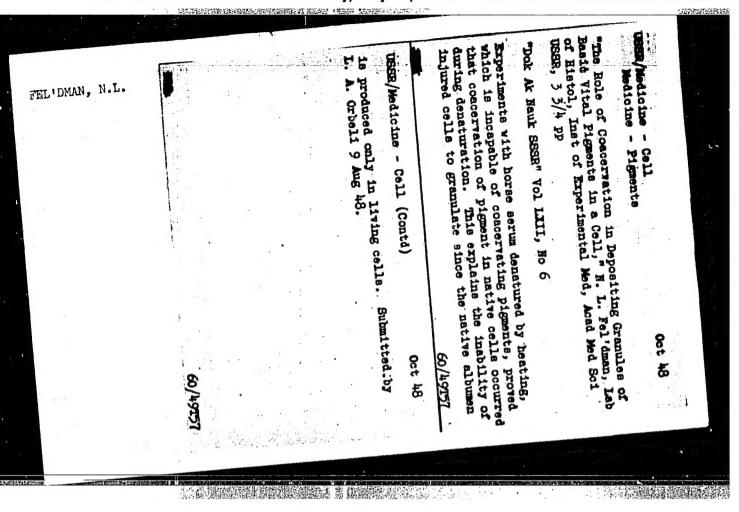
FEL'DMAN, N. L.

"Problem of the Diffused Coloring of a Cell by Certain Basic Vital Dyes," Dokl. AN SSSR, 59, No.6, 1948

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"APPROVED FOR RELEASE: Monday, July 31, 2000

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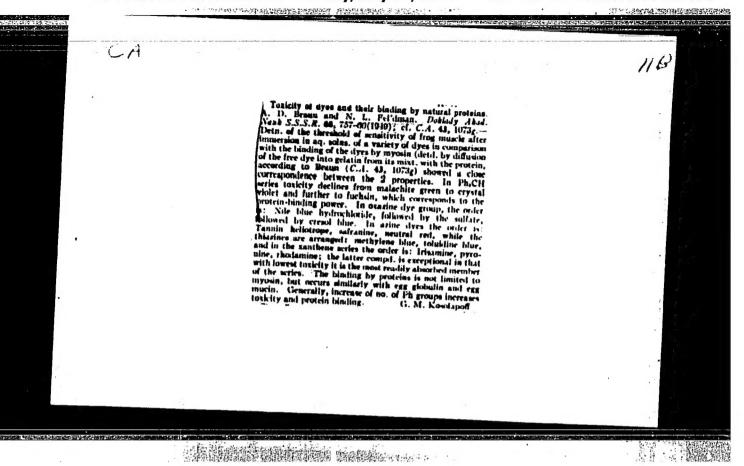
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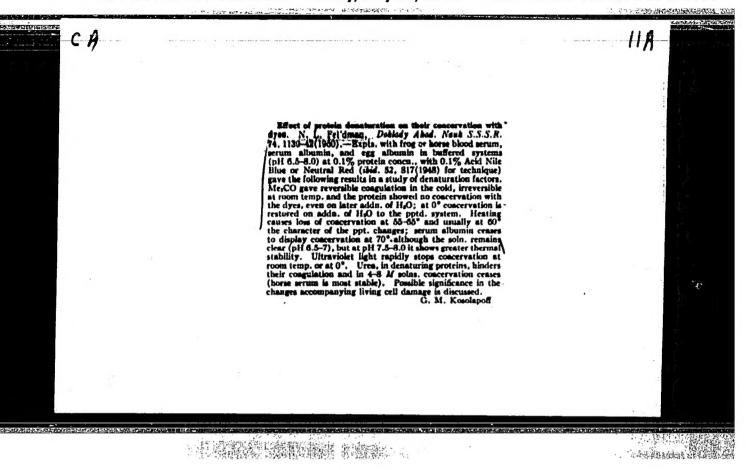
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24309 FELIMAL, H. L. O raspredelenti osnovnych vital'nych krasitelev v kletke.

Trudy Akad. med. nauk SSSR, T. III, 1949, S. 16-19.

S0: Letopis, No. 32, 1949.





FEL'DMAN, N.L.

Causes of depression of gramuloprecipitation of dyes in injury of cells. Doklady Akad. nauk SSSR 89 no. 2:345-346 11 Mar 1953. (CLML 24:1)

1. Presented by Academician A. I. Oparin 15 January 1953.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0004128300

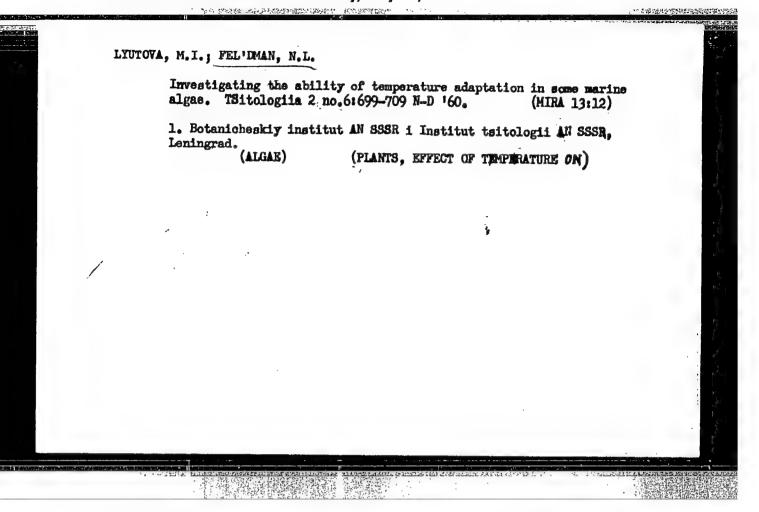
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TELDMAK, ML.

ALEKSANDROV, V.Ya.; FEL'DMAN, N.L.

Studying the increase in the resistance of cells as a reaction to high temperatures [with summary in English]. Bot. shur. 43 no.2: 194-213 F *58. (MIRA 11:5)

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR i Institut tsitologii Akademii nauk SSSR, Leningrad. (Plants, Mffect of temperature on)



FEL'DMAN, N.L.

Influence of sugars on the cell resistance of some higher plants to heating and high hydrostatic pressure. Tsitologiia 4 no.6:633-643 N-D'62 (MIRA 17:3)

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FEL'DMAN, N.L.; LYUTOVA, M.I.

Investigation of the thermostability of cells of some sea grasses. Bot.zhur. 47 no.4:542-546 Ap '62. (MIRA 15:8)

1. Institut tsitologii AN SSSR i Botanicheskiy institut imeni Komarova AN SSSR, Leningrad. (Seaweed) (Plants, Effect of temperature on)

FELDMAN, N. L. and KAMENTSEVA, I. Ye.

"Heat Resistance and Cold Resistance of Cells of a Leaf of Yellow Star-of-Bethlehem at Different Phases of Development." pp. 76

Institute of Cytology of the Academy of Sciences USSR, Botanical Institute imeni V. L. Komarov of the Academy of Sciences USSR

3I Nauchnays Konferentsiya Institulogii AN SSSR. Tezisy Dokladov (Second Scientific Conference of the Institute of Cytology of the Academy of Sciences USSR, Abstracts of Reports), Leningrad, 1962, 88 pp.

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Heat and frost resistance of leaf cells of the yellow star-of Bethlehem at different stages of development. Bot. zhur. 48 no.3:414-419 Mr '63. (MIRA 16:4)

1. Institut tsitologii AM SSSR i Botanicheskiy institut imeni V. L. Komarova AM SSSR, Leningrad.

(Plants, Effect of temperature on) (Yellow star-of-Bethlehem)

FELDMAN, N. L.

"Heat hardeking undernatural and experimental conditions."

UNESCO - International Symposium on the Role of Cell Reactions in Adaptations of Metazoa to Environmental Temperature.

Leningrad, USSR, 31 M

31 May - 5 June 1963

TROSHIN, A.S., otv. red.; ARRONET, N.I., red.; BEYYER, T.V., red.; ZHIRMUNSKIY, A.V., red.; KUSAKINA, A.A., red.; PROSSER, K.L., red.; LOZINA-LOZINSKIY, L.K., red.; POLYANSKIY, Yu.I., red.; SUKHANOVA, K.M., red.; USHAKOV, B.P., red.; FEL'DMAN, N.L., red.; ALEKSANDROV, V.Ya., red.

[Cell and the temperature of the medium; transactions]
Kletka i temperatura sredy; trudy. Moskva, Nauka, 1964. 303 p.
(MIRA 18:1)

1. International Symposium on Cytoecology, Leningrad, 1963.
2. Institut tsitologii AN SSSR, Leningrad (for Troshin, Arronet). 3. Laboratoriya kosmicheskoy biologii Instituta tsitologii AN SSSR, Leningrad (for Lozina-Lozinskiy).4. Laboratoriya tsitofiziologii i tsitoekologii Botanichskogo instituta im. V.L.Komarova AN SSSR, Leningrad (for Aleksandrov).

5. Laboratoriya sravnitel'noy tsitologii Instituta tsitologii AN SSSR, Leningrad (for Zhirmunskiy, Kusakina, Ushakov).

6. Laboratoriya tsitologii odnokletochnykh organizmov Instituta tsitologii AN SSSR, Leningrad (for Sukhanova). 7. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad (for Arronet).

ZAVADSKAYA, I.G.; FEL'DMAN, N.L.; KAMENTSEVA, I.Ye.

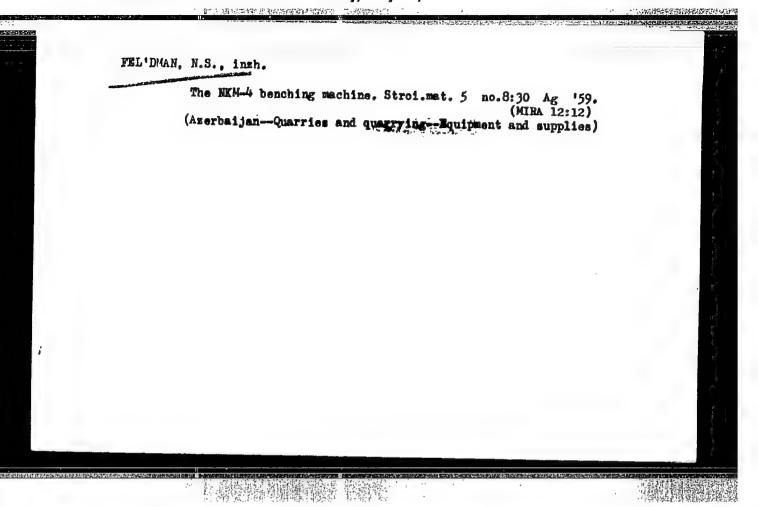
Carbohydrate content and cold resistance in the cells of higher plants. Dokl. AN SSSR 157 no.41995-997 Ag *64 (MIRA 17:8)

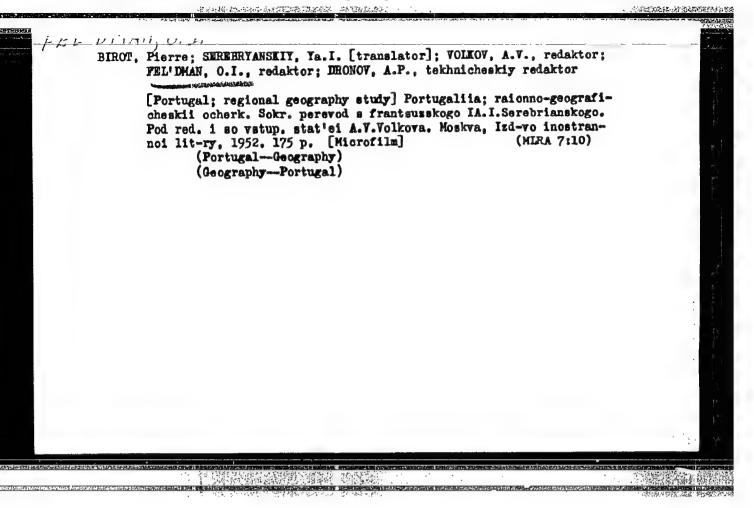
1. Botanicheskiy institut im. V.T. Komarova AN SSSR i Institut tsitologii AN SSSR. Predstavleno akademikon N.M. Sisakyanom.

BEBKO, V.G., inzh.; MEL'NICHENKO, G.I., inzh.; FEL'DMAN, N.M., inzh.

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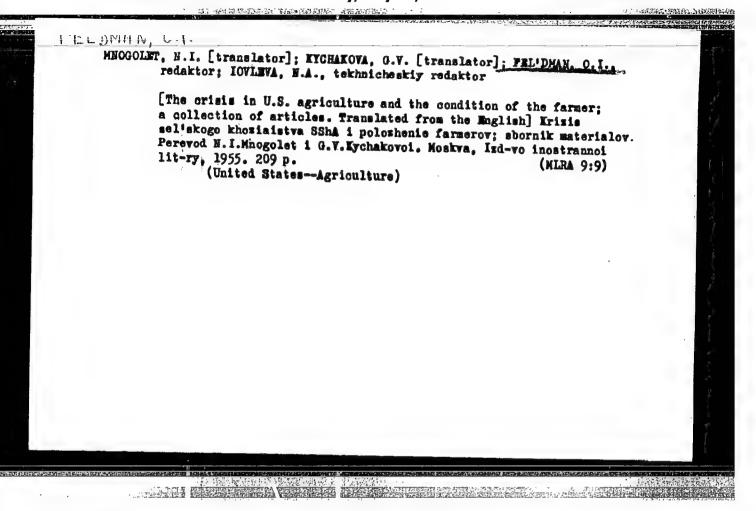
(4) 为此。不仅是我们是我们的我们的一种"严格处方"

FEL DMAN, U.I.

FREEMAN, T.W.: SAPGIR, L.M.[translator]; OHERGA, R.R.[translator]; KUNINA, V.E., redaktor; PARCHEVSKIY, O.K., redaktor; IGNAT'YEV, G.M., redaktor; FEL'DMAN, O.I., redaktor; GERASIMOV, Ye.S., tekhnicheskiy redaktor.

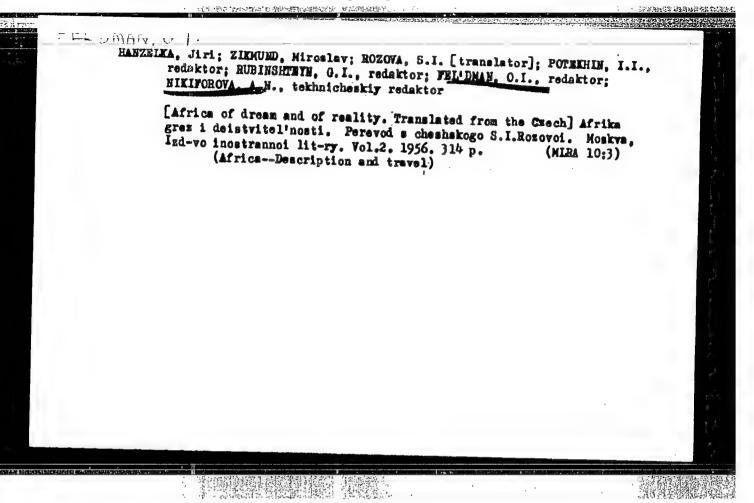
[Ireland; physical and economic geography. Abridged translation from the English by L.M.Sapgir and R.R.Oberga] Irlandiia; fizicheskaia i ekonomicheskaia geografiia. Sokr. perevod s angliiskogo L.M.Sapgir i R.R.Oberga. Red.i vstup. stat'ia V.E.Kuninoi. Moskva, Izd-vo inostrannoi lit-ry, 1952. 399 p. (MIRA 8:4)

(Ireland--Physical geography) (Ireland--Economic geography)



HANZELKA, Jiri; ZIKMUND, Miroslav; YEZHOV, V.D. [translator]; POTEKHIN, I.N., redaktor; RUBINSHTNYN, G.I., redaktor; FEL'DMAN, O.I., redaktor; NIKIFOROVA, A.N., tekhnicheskiy redaktor

[Africa of dreams and of reality. Translated from the Czech] Afrika grez i deistvitel snosti. Perevod s cheshskogo V.D.Ezhova. Red. I.I. Potekhina. Moskva. Izd-vo inostrannoi lit-ry. 1956. 277 p. (MLRE 9:12) (Africa-Description and travel)



TAN-KHM-KHUON; DEMENT'YEV, Yu.P. [translator]; FEL'DMAN, O.I., red.;

KHOMYAKOV, A.D., tekhn.red.

[Geography of Gambodia] Geografiia Kambodshi. Moskva, Isd-vo inostr.lit-ry, 1959. 93 p. (Translated from the French)

(Gambodia--Geography)

(Gambodia--Geography)

多个《《祖传》中的《《新闻新歌》的《祖传》(图1988年)

BLAZHEK, Miroslav (Blazek Miroslav); AVDEICHEV, L.A. [translator]; RO-ZOVAYA, S.I. [translator]; RUBINSHTKYN, G.I. [translator]; MERGOYZ, I.M., red.; PIVOVAROV, Yu.L., red.; FEL'IMAN, O.I., red.; IOVLEVA, N.A., tekhn. red.

[Economic geography of Csechoslovakia. Translated from the Czechoslovakian] Ekonomicheskaia geografiia Chekhoslovakii. Vstup. stat'ia i red. I.M.Maergoiza. Moskva, ¹zd-vo inostr. lit-ry, 1960. 476 p. (MIRA 14:5) (Czechoslovakia—Economic geography)

Fel'dman, O. S. "On the relation of the mineral composition of osseous and dental

tissue to the protein content of the food ration," Trudy Kazansk. gos. stomatiol. in-ta Issue 2, 19h9, p. 31-37

So: U-5240, 17 Dec. 53, (Letopis 'Zhurnal 'nykh State;, No. 25, 1949).

FLLDMAN, 1

USSR/Electronics - Radio receivers

Card

1 1/1 Pub. 89 - 14/24

Authors

Pumpyansky, V. and Feldman, P.

Title

Belarus 53"

Periodical

Radio 6, 29 - 33, June 1954

Abstract

The new 14-tube superheterodyne receiver, "Belarus' 53", manufactured by the Minsk Radio Factory under the mangement of the Ministry of the Bielorussian Fuel Industry, is described in detail. The "Belarus" 53" is a class I receiver operating on long-, medium-, and short-wave bands. The main parameters of the receiver are: Nominal output power-4 wt; 135 wt (from an AC line). The amplifier's medium-frequency band-pass can be varied, in stages, between 5 and 12 kilocycles. Illustrations, showing the general view of the receiver, the high-grequency capacitor group, and the receiver circuit diagram, four illustrations in all, are shown. Also four tables giving data on coil windings.

Institution :

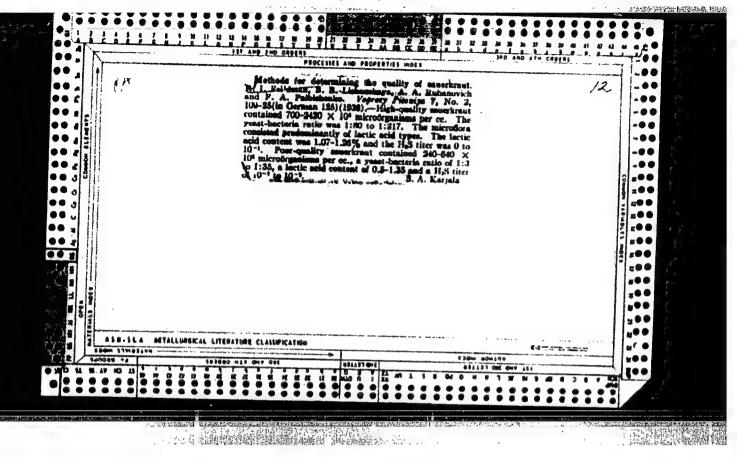
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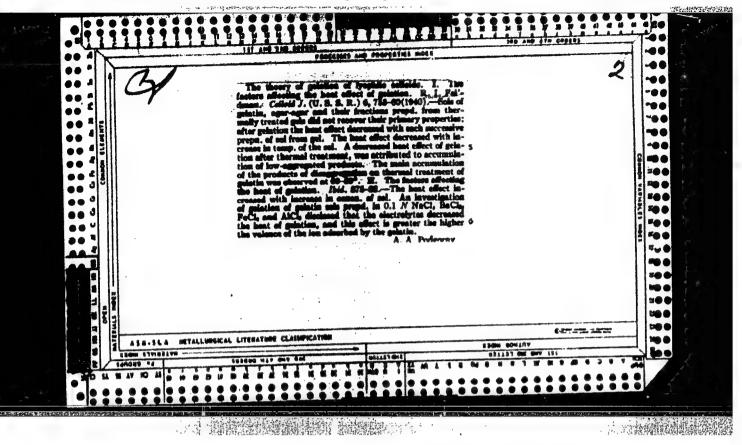
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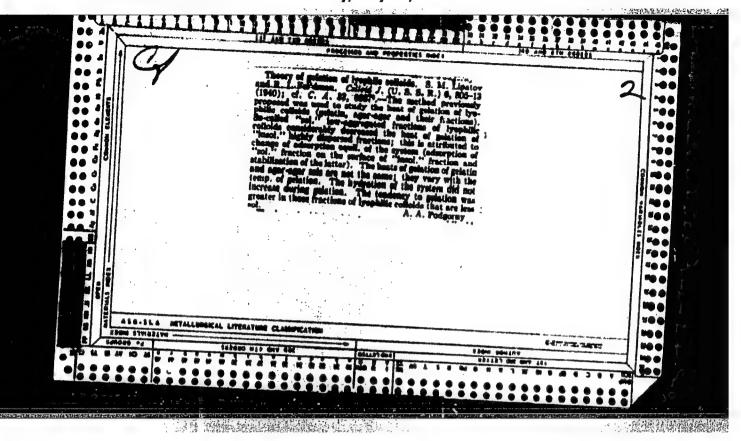
"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412830

FEL'DMAN, USSR/ Electronics - Radio equipment Card 1/1 Pub. 89 - 13/30 Authors Pumpyanskiy, V., Fel'dman, P. Title The "Minsk R-7-55" combined phonograph and radio receiver Periodical Radio 3, 22 - 24, Mar 1955 Abstract A technical description is given of the "Minsk R-7-55" combined phonograph and radio receiver, in which provisions are made for the possibility of using an attachment in the form of a motorless magnetic-tape recorder for recording radio broadcasts, playing phonograph records, or recording by means of a microphone and reproducing what is recorded. Detailed specifications are given of circuits, technical parts and construction. Illustrations; diagrams; table. Institution: Submitted

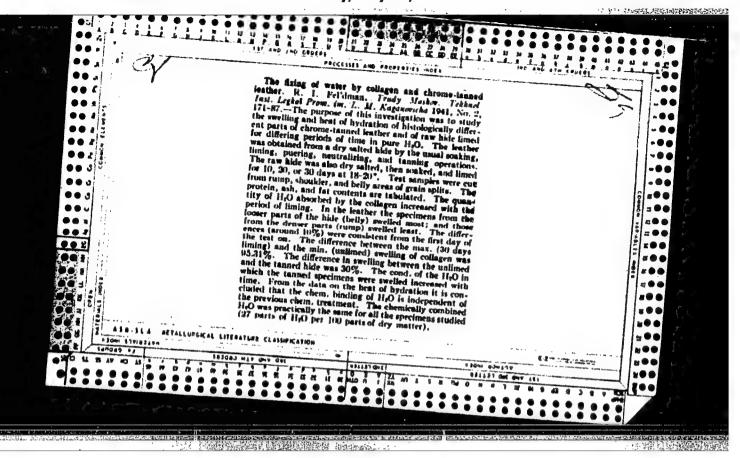




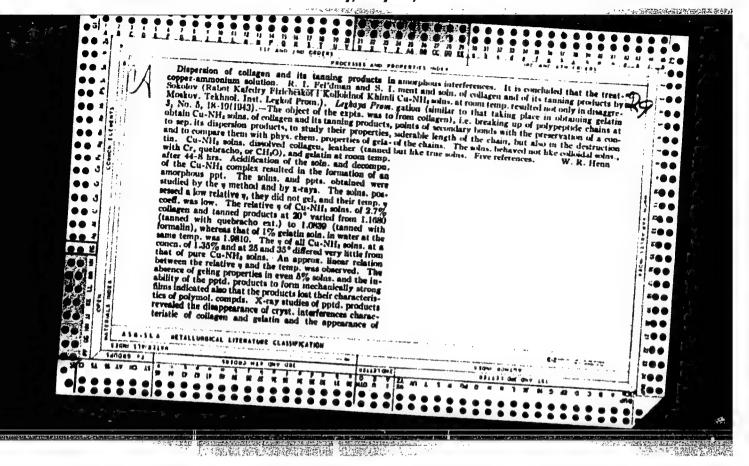


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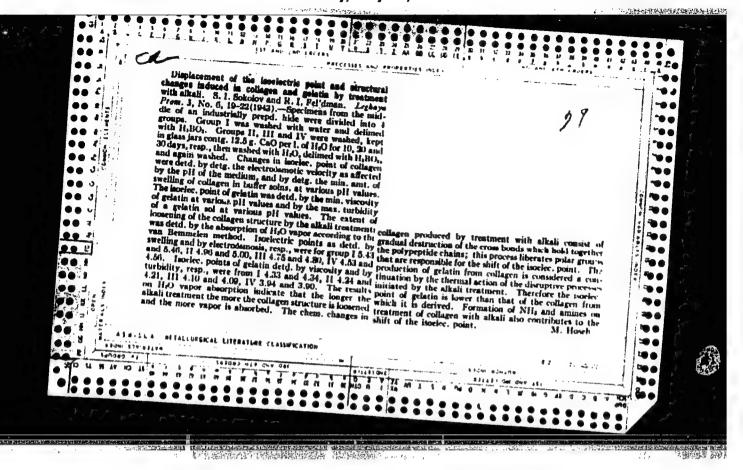


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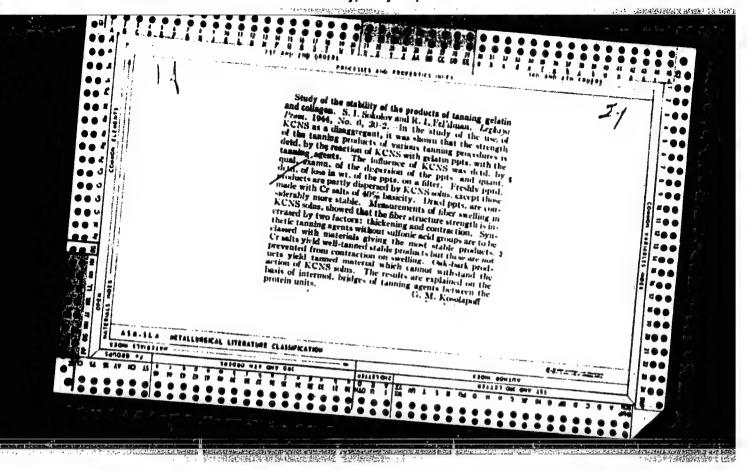


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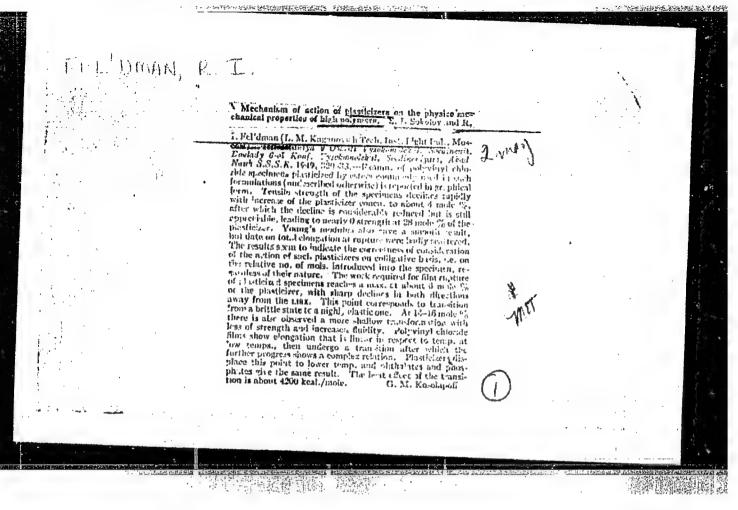


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APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0004128300

FEL DMAN, R.I.; SOKOLOV, S.I.

State of aggregation of high-molecular compounds. Linear thermal expansion and physicouschanical properties of some polymers. Khim. i Fis. Khim. Vysokomolekul. Soedineniy Doklady 7-oy Konf. Vysokomolekul. Soedineniyam 152, 159-67.

(CA 47 no.16:7860 153)

1. Moskov. Tekhnol. Inst. Legkoy Prom. im. L.M.Kaganovicha.

USSR/ Chemistry - Physical chemistry

Card 1/1

Pub. 22 - 24/44

Authors

: Fel'dman, R. I.

Title

Effect of plasticizing additions on the mechanical properties of polyvinylchloride

Periodical

: Dok. AN SSSR 97/6, 1033-1036, Aug 21, 1954

Abstract

The effect of quantitative ratios of components (plasticizers) in a given mixture of the physico-mechanical properties of plasticized polyvinylchloride, was investigated. The effect of the rate of deformation and change over from one state to another which are connected with the relaxation processes in material on the behavior of the polymer in the mixture, was determined. It was established that this effect is primarily determined by the molar ratio of the plasticizer and polymer and does not depend upon the molecular weight, composition and structure of the plasticizer. Four USSR references (1945-1952). Tables.

Institution:

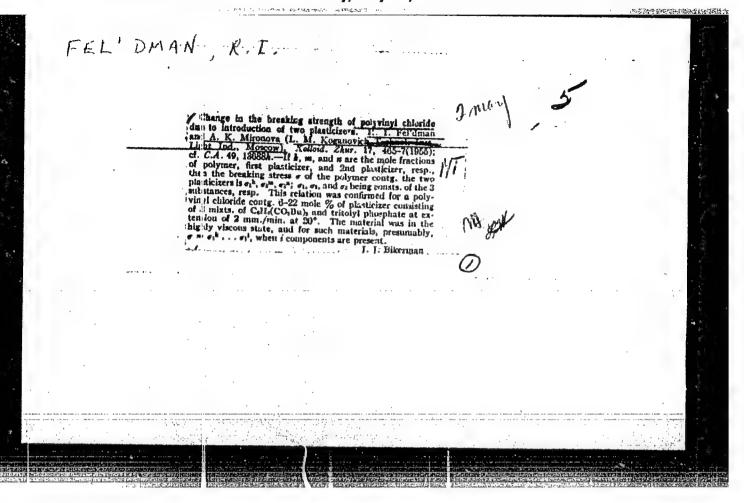
The L. M. Kaganovich Technological Institute of Light Industry, Moscow

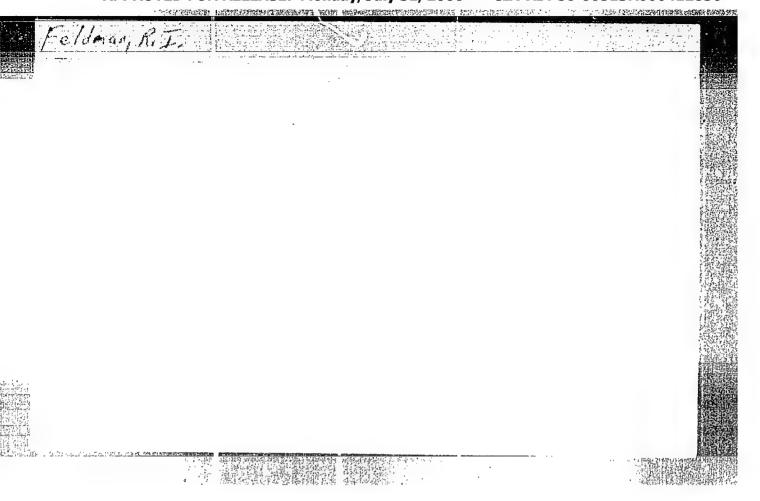
Presented by:

Academician P. A. Rebinder, April 2, 1954

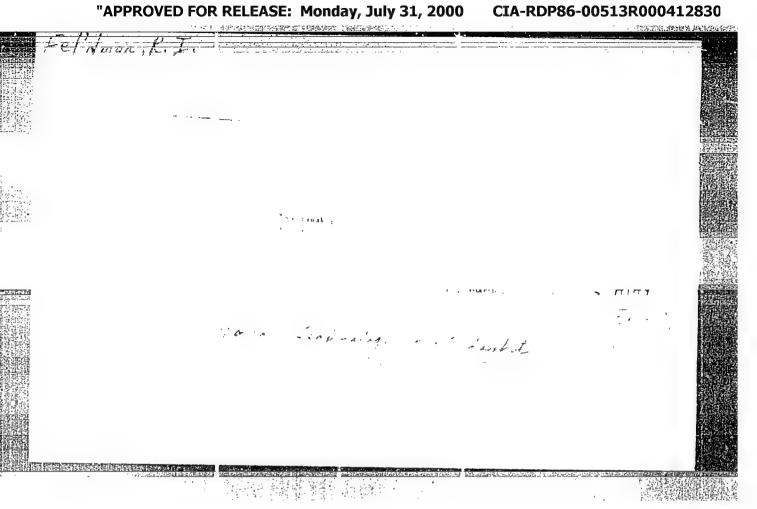
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CIA-RDP86-00513R000412830





CIA-RDP86-00513R000412830



omak, K.F. AUTHORS: Fel'dman, R.I.; Mironova, A.K.; Sokolov, S.I. 69-20-1-15/20 The Effect of a Plasticizer on the Mechanical Properties of TITLE: the Copolymer of Vinyl Chloride with Vinylidene Chloride and Polyvinyl Chloride (Vliyaniye plastifitsiruyushchikh dobavok na mekhanicheskiye svoystva sovmestnogo polimera vinilkhlorida s vinilidenkhloridom i polivinilkhlorida) PERIODICAL: Kolloidnyy Zhurnal, 1958, Vol XX, # 1, pp 106-109 (USSR) ABSTRACT: The article is a continuation of the work published in the references 1 and 2. The substances under investigation were soviden and polyvinylchloride igelite-K. Soviden was obtained by copolymerization of vinyl chloride and vinylidene chloride in the ratio 77 : 23. It was shown that polyvinyl chloride needs a larger quantity of plasticizer to reach a high-elastic state than the copolymer. A comparison of the results of previous work shows the same dependence of the mechanical properties on the effect of the plasticizer. Card 1/2 There are 2 figures, 2 tables and 4 Soviet references.

69-20-1-15/20

The Effect of a Plasticizer on the Mechanical Properties of the Copolymer of Vinyl Chloride with Vinylidene Chloride and Polyvinyl Chloride

ASSOCIATION: Moskovskiy tekhnologicheskiy institut Legkoy promyshlennosti

(Moscow Technological Institute of Light Industry)

SUBMITTED: January 7, 1957

AVAILABLE: Library of Congress

Card 2/2

CALLETING

AUTHOR:

Fel'dman, R.I.

69-58-2 -16/23

TITLE:

The Aggregate States of High Molecular Compounds. 1. A Study of the Linear Expansion of Polymethylmethacrylate, Polystyrene, Polyvinylchloride and the Vinyl Chloride-Vinyl Acetate Co-Polymer (O sostoyaniyakh agregatsii vysokomolekulyarnykh soyedineniy. 1. Izucheniye lineynogo rasshireniya polimetilmetakrilata, polistirola, polivinilkhlorida i sovmestnogo polimera vinilkhlorida s vinilatsetatom)

PERIODICAL:

Kolloidnyy zhurnal, 1958, Vol XX, Nr 2, pp 220-228 (USSR)

ABSTRACT:

Aggregate states are very important for the investigation of high molecular compounds. For determining these states, special methods are used: specific volume, linear dimensions, heat capacity, mechanical, optical, other properties at various temperatures, thermography, etc. In this article, the linear expansion method is employed. In this method, isotropic materials give similar results, but in anisotropic materials the expansion coefficient depends on the direction of orientation. Experiments were carried out with a dynamometer of the Polyani type. The change of expansion is measured after a temperature change of 1 C. Industrially manufactured anisotropic strips of polymethylmethacrylate with

Card 1/4

69-58-2 -16/23

The Aggregate States of High Molecular Compounds. 1. A Study of the Linear Expansion of Polymethylmethacrylate, Polystyrene, Polyvinylchloride and the Vinyl Chloride-Vinyl Acetate Co-Polymer

interior stresses were investigated. The test results after 5 cycles of heating and cooling are shown in Figure 2. The tests lasted 13.5 days. The length of the strips was reduced by 3.1 % at a temperature change from 85 to 16°C. Thermal processing increased the heat resistance of the material. Contraction started only at higher temperatures. The temperature curves for pressed industrial specimens of polystyrene are given in Figure 3. They indicate the transition to a more resistant stage. Thermal processing decreases the contraction value of the material. A temperature change from 98-103°C reduces the length of the specimens by 0.43 %. Polyvinyl chloride was tested in the form of films prepared on glass or mercury and dissolved in dichlorethane and chlorbenzene. The average molecular weight is 62,000. The form of the curve changes in relation to the preliminary processing of the specimen. The contraction shows that the polymer chains are relatively mobil and may be re-grouped. After 2 cycles of cooling and heating, the length of the specimen was reduced by 11 %. Preliminary

Card 2/4

69-58-2 -16/23

The Aggregate States of High Molecular Compounds. 1. A Study of the Linear Expansion of Polymethylmethacrylate, Polystyrene, Polyvinylchloride and the Vinyl Chloride-Vinyl Acetate Co-Polymer

> heating reduced the lengthening of unstretched specimens by 25 %. In Figure 5, the temperature dependence of the relative lengthening is given for films of plasticized polyvinyl chloride. The films were prepared on rollers and then pressed. With the increase of the plasticizer concentration, the transition points are moved to lower temperatures and the hysteresis loops are increased. The coplolymer produced from 85 weight % of vinyl chloride and 15 weight % of vinyl acetate was tested in the form of anisotropic films prepared on glass. Thermal processing at 160°C removes the orientation. Lengthening during the tests is decreased from 22.5 to 9.9 %. The analysis of the cited facts shows that the coefficients of linear expansion and the temperature transition points are not very constant and depend in the first place on the foregoing treatment of the specimen and on the preliminary kinetic changes leading to the investigated state. The great number of transitional points proves the diversity of the aggregate states in high molecular compounds.

Card 3/4

69-58-2 -16/23

· The Aggregate States of High Molecular Compounds. 1. A Study of the Linear Expansion of Polymethylmethacrylate, Polystyrene, Polyvinylchloride and the Vinyl Chloride-Vinyl Acetate Co-Polymer

> There are 11 graphs, 1 table, and 38 references, 20 of which are Soviet, 10 English, 7 German, and 1 American.

ASSOCIATION:

Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti (Moscow Technological Institute of Light Industry)

SUBMITTED:

April 15, 1957

1. Molecular compounds--Phase studies 2. Polymthylmethacrylate -- Linear expansion 3. Molecular compounds--Test methods

4. Molecular compounds -- Test results

Card 4/4

CIA-RDP86-00513R0004128300 APPROVED FOR RELEASE: Monday, July 31, 2000

AUTHORS:

Fel'dman, R.I.; Sokolov, S.I.

69-20-3-21/24

TITLE:

The States of Aggregation of High Molecular Compounds (O sostoyaniyakh agregatsii vysokomolekulyarnykh soyedineniy) 2. Study of the Linear Expansion of Gutta-Percha (2. Izucheniye lineynogo rasshireniya guttaperchi)

PERIODICAL:

Kolloidnyy zhurnal, 1958, vol XX, Nr 3, pp 388-394 (USSR)

ABSTRACT:

Gutta-percha exists in two principal modifications which have been detected by roentgenological and electronographical methods. These modifications are differentiated by the position of the various chain links and the chains themselves. Gutta-percha films on different supports have been studied according to their states of aggregation. For this purpose they were heated and cooled and their linear dimensions measured. A film of gutta-percha R (Figure 1) has been tested and measured. At a temperature of 58 - 62°C it became transparent, which means that this temperature is the melting point of the crystals and the transition point to the amorphous state. Figure 1 also shows the dependence of the length of a film of gutta-percha R, which had been heated in water to 80°C and then cooled to 15°C, on temperature. The two curves are similar, but the linear expansion is different.

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69-20-3-21/24

The States of Aggregation of High Molecular Compounds. 2. Study of the Linear Expansion of Gutta-Percha

> The same curve for gutta-percha S is shown in Figure 2. This type of gutta-percha was in an unstable state with interior stresses. A contraction and expansion process was active in the sample at the same time. In the temperature interval of 27 - 42°C, these processes compensate for one another. The temperature dependence of gutta-percha which has been preliminarily extended close to the breaking point is very slight (Figure 3). The thermal treatment of the samples is regarded as influencing the molecular packing of the gutta-percha as well as the stability of the system.

There are 6 graphs, 1 table, and 25 references, 11 of which are Soviet, 8 English, 4 German, and 2 American.

ASSOCIATION:

Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti

(Moscow Technological Institute of Light Industry)

Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow

Institute of Chemical Machine-Building)

SUBMITTED:

April 15, 1957

Card 2/2

1. Rubber-Test methods 2. Rubber-Test results

MAKAROY-ZEMLYANSKIY, Ya.Ya.; FEL'DMAN, R.I.; REUTOV. O.S.; GOLDOVSKIY, Ye.A.

Chitosan as a substitute for food products and rubber. Leg. prom. 18 no.6:28-30 Je '58. (MIRA 12:10) (Chitin) (Leather substitutes)

5(4) 507/69-21-2-19/22

AUTHOR: Felidman, R.I.

TITLE: On the Aggregation Conditions of Highmolecular Compounds (0

sostoyaniyakh agregatsii vysokomolekulyarnykh soyedineniy),

3. Synthetic Polyamides (Sinteticheskiye poliamidy)

PERIODICAL: Kolloidnyy zhurnal, 1959, Nr 2, pp 238-243 (USSR)

ABSTRACT: This article supplies data concerning crystallizing highmole-

cular systems, which due to their affinity to water and their hygroscopic qualities combine with variable quantities of water. The objects of the author's investigation were several kinds of polyamides, which under natural conditions can obtain 4-6% moisture. During heating and cooling processes he studied the behaviour of polyamide specimens (polycaprolactam and a product of polycondensation of hexamethylenediamine with adipinic acid) with different specific surfaces (rods, membranes, threads) with the aid of the linear dilatometric method. He has shown that the result of the influence of the temperature on the linear more water of the

fluence of the temperature on the linear measures of the Card 1/2 specimens is composed of normal thermal enlargement, ano-

SOV/69-21-2-19/22

On the Aggregation Conditions of Highmolecular Compounds. 3. Synthetic Polyamides.

malous linear contraction as a result of the loss of previous orientation, a possible volume effect due to the shift from a non-equilibrated unstable state of the substance to a more stable condition and a change in the moisture content. The described phenomena, which prevalently refer to non-equilibrated states, directly concern the behaviour of these materials in industrial products under usual practical conditions. The author expresses his thanks to Prof. S.I. Soxolov and Engineer I. Shtern for their collaboration. There are 4 graphs and 11 references, 7 of which are Soviet, 3 English and 1 German.

ASSOCIATION: Moskovskiy o

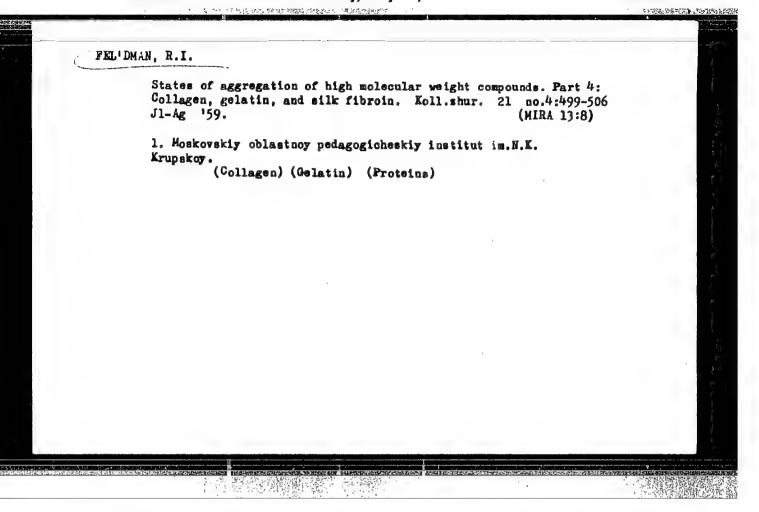
ION: Moskovskiy oblastnoy pedagogicheskiy institut im. N.K. Krup-

skoy (Moscow Oblast: Pedagogical Institute imeni N.K. Krup-

skaya)

SUBMITTED: December 15, 1957

Card 2/2



5(4)

SOV/69-21-4-20/22

AUTHOR:

Fel'dman, R.I.

TITLE:

on the States of Aggregation of High-Molecular Compounds

4. Collagen, Gelatine and Silk Fibroin.

PERIODICAL:

Kolloidnyy zhurnal, 1959. Vol XXI, Nr 4, pp 499-506 (USSR)

ABSTRACT:

This is a study of the behaviour of hydrophylic materials (collagen, gelatine and silk fivroin) at changing temperatures with the aid of the dilatometric method. The data is not to be considered as constants for these materials. It is intended for comparing under certain kinetic conditions the behaviour of materials differing in their hydrophylic properties, and for evaluating the behaviour of the materials in the ready product under the real conditions of changing temperatures and changing moisture content. The experiments were carried out in parallel runs, in order to show separately the effect of temperature on the length (graphs 1,3,5 and 6) and the weight (graphs 2 and 4) of the

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On the States of Aggregation of High-Molecular Compounds 4. Collagen, Gelatine and Silk Fibroin

specimens. A comparison of the respective curves shows their mutual connection. It is evident, therefore, that the change of the measures of the specimens does not only depend on thermal enlargement, i.e. changes in orientation and closenness of molecule packing, but also to a considerable degree on moisture concentration. The rates of change of linear measures and moisture concentration are different, and depend on change in temperature. In this regard the behaviour of a massive piece of collagen, for instance, is similar to the behaviour of gelatine films and silk fibroin fibers. The autor explains this circumstance by the important role of the moisture concentration, and the specific structure of collagen. Graph 6 shows the length of a silk fibroin fiber in function of the temperature in additionally-moistened air (presence of liquid water in the working chamber of the dilatometer). The results were obtained at P=434 g/mm². The change in the

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On the States of Aggregation of High-Molecular Compounds 4. Collagen, Gelatine and Silk Fibroin

length of the fiber reached approximately 1.4% within a range of temperatures varying from 25 over more than 90 to 15°C. This proves that the behaviour of hydrophylic materials depends on many factors and appears as a complex phenomenon, which can be observed under varying as well as isothermal conditions. A third parallel series of experiments is illustrated by graph 7. The curve shows the temperature of mechanical destruction of a silk fibroin fiber in function of the values of different loads. On the whole, the experiments have shown that the dilatometric method proved suitable for the above-mentioned purpose. The change in the content of moisture sorbed or desorbed by the material plays an important role in the complex of phenomena, which determine the effect of linear extension and contraction of albumens. The changes in the state of agregation of the systems studied with the aid of the dilatometric method are characterized by transition temperatures, shrinkage values

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SOV/69-21-4-20/22

On the States of Aggregation of High-Molecular Compounds 4. Collagen, Gelatine and Silk Fibroin

and typical hysteresis phenomena. This also applies to other high-molecular materials. The author expresses his gratitude for help to Professor S.I. Sokolov. There are 7 graphs and 20 references, 15 of which are Soviet and 5 English.

ASSOCIATION:

Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K. Krupskoy (Moscow Oblast' Pedagogical Institute imeni N.K.

Krupskaya)

SUBMITTED:

29 January, 1958

Card 4/4

S/081/60/000/018/009/009 A006/A001

Translation from: Referativnyy zhurnal, Khimilya, 1960, No. 18, p. 621, # 75995

AUTHORS: Fel'dman, R. I., Mironova, A. K.

TITLE: The Dependence of the Tensile Characteristics of Polyethylene and

Polyisobutylene Mixtures on the Composition

PERIODICAL: Uch, zap. Mosk. ob. ped. in-ta, 1959, Vol. 84, pp. 181-185

TEXT: Tensile characteristics of polyethylene and polyisobuthylene mixtures, determined at 20°C and an elongation rate of 2 mm/min, depend on the composition. The rectilinear dependence of the logarithm of the conditional tensile strength value of the mixture on the composition, expressed in molar fractions, was used to establish that $6 \text{ mixt} = 6 \text{ N}^{11} \cdot 6 \text{ N}^{2}$, where 6 mixt, 6 1 and 6 2 are the corresponding strength values of the mixture, polyethylene and polyisobutylene, and 8 N_{1} and 8 N_{2} are the concentrations of polymers expressed in molar fractions.

The author's summary

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

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DO34/DO03

AUTHORS:

Fel'dman, R.I., Sokolev, S.I.

TITLE:

On the State of Aggregation of High-Molecular Compounds, 6. The Rupture Characteristics of Anisotropic Polycaprolactam Films

PERIODICAL:

Kolloidnyy zhurnal, 1960, Vol XXII, Nr 1, pp 97-100

(USSR)

ABSTRACT:

The authors report on a study intended to establish the ultimate elongation (ξ) and the breaking stress (Γ) of anisotropic polycap*rolactam film specimens. The specimens were cut out from the film in different directions with an interval of 15°. The film was obtained with industrial methods by forcing the melt through a slotted die on a water-cooled drum, the mass being subsequently elongated by 300%. The molecular weight of the polyamide was ~14000. The specimens had a working

Card 1/3

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On the State of Aggregation of High-Molecular Compounds 6. The Rupture Characteristics of Anisotropic Polycaprolactam Films

length of 25 mm, a width of 5 mm, and a thickness of 0.06 mm. The elongation curves were plotted up to the breaking point with the Polyan' dynamometer ("dinamometr tipa Polyani"). The elongation was carried out at a speed equal to 2 mm/min and at t = 20 ± 0.5 C. For the relative ultimate elongation (£ $_{\rm X}$) and breaking stress ($\sigma_{\rm X}$) as a function of the angle between the direction of the orientation and of the stretching force the authors obtained the following expression

$$\mathcal{E}_{x} = \mathcal{E}_{0} + (\mathcal{E}_{90} - \mathcal{E}_{0}) \mathcal{I}_{1} - \sin(90^{\circ} - x) \mathcal{I}_{2}$$
 and $\sigma_{x} = \sigma_{0} - (\sigma_{0} - \sigma_{90}) \sin x$

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On the State of Aggregation of High-Molecular Compounds 6. The Rupture Characteristics of Anisotropic Polycaprolactam Films

> $(\xi_0, \sigma_0, \xi_{90}, \sigma_{90}$ - relative ultimate elongation (%) and breaking stress (kg/mm²), when angle x equals 0 and 90 respectively). The correlations have been interpreted from the viewpoint of the flexural fold hypothesis of crystalline polymer chains that unfold on stretching. The authors express their gratitude for help to N.T. Fel'dman. There are 2 graphs and 1 Soviet reference.

ASSOCIATION:

Moskovskiy institut khimichekogo mashinostroyeniya, Moskovskiy oblastnoy pedagogicheskiy institut im. N.
K. Krupskoy (Moscow Institute of Chemical Machine Building, Moskovskaya Oblast' Pedagogical Institute imeni
N.K. Krupskaya)

SUBMITTED:

May 15, 1958

Card 3/3

States of aggregation of high molecular weight compounds. Part 7: Effect of temperature on the state of keratins. Koll.shur. 22 no.3:351-356 My-Je '60. (MIBA 13:7) 1. Moskovskiy oblastnoy pedagogicheskiy institut im. N.K. Krupskoy. (Keratins)

25888 S/069/61/023/004/003/003 B101/B215

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Fel'dman, R. I.

TITLE:

AUTHOR:

States of aggregation of high-molecular compounds. 9. Thermo-dilatometric study of polychloroprene and natural rubber

PERIODICAL: Kolloidnyy zhurnal, v. 23, no. 4, 1961, 475-481

TEXT: The properties of polychloroprene (PCP) and natural rubber (NR) (smoked sheets) were studied at various temperatures by a dilatometric method earlier described by the author (Ref. 8: Kolloidn. zh., 20, 220, 1958). The data obtained were compared with those the author obtained for gutta-percha (Ref. 7: Kolloidn. zh. 20, 388, 1958; Ref. 9: 21, 238, 499, 1958). 1) A commercial Soviet product of PCP was used. The films were made from a solution of PCP in dichloroethane on a mercury surface. The evaporation of the solvent in the dark at 15-20°C was gravimetrically checked. The thickness of the film did not exceed 0.1 cm. Stripes of 5-10 cm length and 0.5-1.3 cm width were used for the test. The following data were found at a load of P = 2.3 g/mm² and a temperature variation by 1°C in 3-5 min: The coefficient of linear expansion & between 0 and Card 1/4

X

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States of aggregation ...

18°C was $A_{0-18^{\circ}C} = 2.91 \cdot 10^{-4}$. On heating from 0 to 26°C, elongation was approximately 17%. For comparison, the following is given for "P" ("R"): $A_{5-23^{\circ}C} = 2.28 \cdot 10^{-4}$ at P = 10.9 g/mm². To study the effect of preliminary thermal treatment, the PCP films were heated at 130 or 160°C. The following results were obtained: At 130°C: $A_{0-21^{\circ}C} = 1.97 \cdot 10^{-4}$. Between 0 and 82°C, elongation was approximately 7.5%; on heating up to 95°C, it was approximately 9%; P = 4.1 g/mm². In films heated up to 160°C $A_{0-20^{\circ}C}$ was $2.65 \cdot 10^{-4}$, $A_{20-52^{\circ}C}$ was $4.77 \cdot 10^{-4}$, $A_{64-82^{\circ}C}$ was $4.04 \cdot 10^{-4}$, and $A_{82-0^{\circ}C}$ was $4.04 \cdot 10^{-4}$. The fact that thermally treated films had no yield point at $4.06 \cdot 10^{-4}$. The fact that thermally treated films had no yield point at $4.06 \cdot 10^{-4}$. The fact that thermally treated films had no yield point of thermally treated films were shifted toward higher temperatures. Examination of the specific volume of PCP also yielded a transition point at approximately $4.06 \cdot 10^{-4}$, but the measurement of changes in length was more precise. 2) 0.65 mm films on glass plates were produced from smoked NR Card $4.06 \cdot 10^{-4}$.

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States of aggregation ...

sheets by evaporation of their benzene solution. Between 0 and 60°C an elongation of 5.4 % was found at P = $1g/mm^2$. Between approximately $10-40^{\circ}$ C. such a transition range is similar to that of gutta-percha "C" ("S"). For NR, α_{1-10}° C was 3.96.10⁻⁴ at P = 1g/mm². In gutta-percha "S", α_{8-27}° C changed from 1.6.10⁻⁴ to 1.9.10⁻⁴ at P = 19 g/mm². To study the effect of crystallization, stripes of NR were kept between -15 and -9°C for 33 days, and then dilated in one cycle ($1^{\circ}C \rightarrow 48^{\circ}C \rightarrow 1^{\circ}C$) at P = 1.4 g/mm². On heating up to 4°C, elongation set in. Between 4~13-15°C the length remained constant. In the next cycle, the elongation increased steadily, and the beginning of the transition range was elevated from 4°C to 10°C (like in non-cooled rubber). In vulcanized samples, the length remained constant between approximately 11 and 16° C (P = $92.6g/mm^2$). Between 16-30°C, shortening set in, and above 30°C elongation. These effects were explained by the superposition of several processes. A) Melting of regions crystallizing at low temperatures, and formation of new, oriented obrystal regions at elevated temperatures. B) Destruction of crystal regions oriented in a direction other than that of stress. C) In vulcanized NR, also effect of the network which tends to return to its initial position, comes in play Card 3/4 ·

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States of aggregation ...

(entropy effect). The author thanks Professor S. I. Sokolov for his interest in the work. There are 3 figures and 12 references: 11 Soviet-bloc and 1 non-Soviet-bloc. The reference to English-language publications reads as follows: N. Bekkedahl, J. Res. Nat. Bur. Standards, 13, 411, 1934; Rubber Chem. and Technol., 8, 5, 1935.

ASSOCIATION: Moskovskiy oblastnoy pedagogicheskiy institut im. N. K. Krupskoy (Moscow oblast' Pedagogic Institute imeni N. K.

Krupskaya)

SUBMITTED: February 18, 1960

Card 4/4

FEDOSEYEVA, Ye.G.; FEL'DMAN, R.I.; SOKOLOV, S.I.

Interaction between polymers and plasticizers. Part 1: Preparation and properties of poly(vinyl chloride)pastes. Koll.zhur. 23 no.6:749-755 N-D '61. (MIRA 14:12)

1. Nauchno-issledovatel'skiy institut katel'noy promyshlennosti i Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K.Krupskoy. (Polymers) (Plasticizers)

DULITSKAYA, Rakhil' Abramovna, dots.; FEL'DMiN, Rakhil' Il'inichna, dots.; ALAVERDOV, Ya.G., red.; GARINA, T.D., tekhn. red.

[Laboratory work in physical and colloid chemistry]Praktikum po fizicheskoi i kolloidnoi khimii. Moskva, Gos.izd-vo "Vysshaia shkola," 1962. 338 p. (MIRA 16:3)

1. Farmatsevticheskiy fakul'tet 1-go Moskovskogo meditsinskogo instituta im. Sechenova (for Fel'dman, Dulitskaya). (Chemistry, Physical and theoretical—Laboratory manuals) (Colloids)

3,231

S/069/62/024/002/007/008 B110/B101

15.8010

AUTHORS:

Fedoseyeva, Ye. G., Fel'dman, R. I., Sokolov, S. I.

TITLE:

Interaction of polymers with plasticizers. 2. Gelatinization of polyvinyl chloride pastes and the properties of the

films obtained from them

PERIODICAL:

Kolloidnyy zhurnal, v. 24, no. 2, 1962, 230 - 235

TEXT: The following changes take place during the gelatinization of PVC pastes (20-40 min, 140 - 185°C): (1) the decrease in viscosity of the PVC suspension at 20 - 40°C is caused by the decrease in viscosity of the dispersion medium. Between 40 and 90°C, viscosity of the system increases rapidly on account of its gradual gelatinization, and above 90°C viscosity again decreases normally. (2) The change in the mechanical rupture characteristics depends on the gelatinization temperature and time; the conditions of gelatinization depend on the composition of the paste. Films made from pastes filled with chalk, titanium dioxide, barium titanate, kaolin, talcum, magnesium oxide, and litharge showed lower tensile properties and greater hardness. Addditional 30 days heat treatment at 120°C

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S/069/62/024/002/007/008
Interaction of polymers ... B110/B101

increased the tensile strength from ~27 - 43 kgf/cm2 to ~47 - 90 kgf/cm2, changed the relative rupture elongation, and lowered linear strain coefficients. Study of the decomposition temperatures showed that lead compounds proved to be better stabilizers than compounds of other metals. (3) The changes in the electrical characteristics of PVC films were determined in: (a) electrical bulk resistivity (2000 v, direct reading compensation bridge), (b) dielectric permeability and tangent of dielectric loss angle (Schering bridge, 1000 v, 50 cps, 1 min), (c) disruptive strength (cylindrical electrodes dipped into tricresylphosphate, rate of voltage increase 1 ky/sec). The electrical characteristics depend on the quantities tive ratio of polymer to plasticizer, on the physical and chemical properties of the plasticizer and on the paste ingredients. Graphite aided increases the film conductivity, and the bulk resistivity amounts to .10° ohm cm. A study of the dependence of the bulk resistivity on the component ratio showed that the curves & versus composition of the polymer systems PVC + tricresylphosphate, PVC + dibutylphthalate, PVC + dioctylphthalate coincide up to a plasticizer content of 45 - 55% by weight. (4) The change in water absorption with temperature and time shows a Card 2/3

S/069/62/024/002/007/008 3110/B101

Interaction of polymers ...

maximum at 20 \pm 1 $^{\circ}$ C. The aforementioned mechanical, electrical and other properties of PVC films show that blocks, films, etc., having important properties for engineering can be obtained by gelatinization. There are 5 figures and 3 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut kabel'noy promyshlennosti,

Moskva (Scientific Research Institute of the Cable Industry, Moscow) Moskovskiy oblastnoy pelagogicheskiy institut im.
N. K. Krupskoy (Moskovskaya oblast' Pedagogical Institute

imeni N. K. Krupskaya)

SUBMITTED: October 20, 1960

Card 3/3

S/069/63/025/002/009/010 A057/A126

AUTHORS:

Pedoseyeva, Ye.G., Fel'dman, R.I. Sokolov, S.I.

TITLE:

On the polymer-plasticizer interaction. 3. Investigation of stability factors and phase transitions in dispersions of polymer in plasticizers (pastes)

PERIODICAL: Kolloidny, zhurnal, v. 25, no. 2, 1963, 247 - 252

TEXT: The present investigations were carried out, and the results presented already at the Fifth All-Union Conference on Colloid Chemistry. Stability factors and phase states of polymer dispersions in plasticizers are discussed on the example of polyvinyl chloride dispersion in dibutyl phthalate which is of interest as a two-component system. The preparation of pastes from these components indicates that a part of the polymer has a stabilizing effect. It was of interest to investigate the "lifetime" of such systems. The stability depends on the sedimentation, the particle size, and on the mutual dissolving (homogenization). The "lifetime" of dispersed systems depends on static and dynamic factors connected to the structure and properties of the polymer, the

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\$/069/63/025/002/009/010 A057/A126

On the polymer-plasticizer interaction ...

structure of globules obtained by emulsion polymerization, as well as to phase relations and the ability of the polymer to remain for a longer time in a non--equilibrated state. The process of paste gelutinization is a result of the dissolving stability (homogenization) of the dispersion. The surface layer of globules might be considered as a barrier which prevents the destruction of the globule. Only an increase of temperature will destroy this barrier effecting a subsequent quick dissolving. The process of paste gelatinization at elevated temperatures is discussed by the present authors as a complex of phenomena which effects a total homogenization of the system and the formation of a high-elastic gel by means of a mutual diffusion of polymer and plasticizer. There are 1 figure and 1 table.

ASSOCIATION: Nauchno-issledovatel skiy institut kabel noy promyshlennosti (Scientific Research Institute of the Cable Industry); Moskovskiy oblast'noy podagogicheskiy institut im. M.K. Krupskoy (Moscow Regional Pedagogio Institute imeni M.K. Krupsknya); Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute of Chemical Machinery Construction)

SUBMITTED:

December 30, 1961

Card 2/2

1 37724-65 EPF(c)/IMP(1)/EMT(m) Pc-4/Pr-4 RM

ACCESSION NR: AP4023501

\$/0069/64/026/002/0258/0262

AUTHOR: Fedoseyeva, Ye. G.; Fel'dman, R. I.; Sokolov, S. I.

4

TITLE: On the interaction of polymers with plasticizers. 4. Effect on rubber of plasticizers which migrate during contact with plasticized polyvinylchloride

SOURCE: Kolloidnyy zhurnal, v. 26, no. 2, 1964, 250-262

TOPIC TAGS: rubber research, plasticizer, polymer swelling, electric property

ABSTRACT: Mechanical and electrical properties and swelling were studied in variour rubber + plasticizer systems. The purpose of the study was to determine the ability of plasticizers to penetrate into rubber at 25 and 145°C from polyvinyl-chloride layers in contact with rubber, as well as to evaluate the effect of plasticizers on the properties of rubber. Butadiene base TS-35 SK-50 rubber was tested. The following plasticizers were used: dimethyl phthalate, dioctyl phthalate, tricresyl phosphate, pentachlorodiphenyl, sebacic acid polyester, 2,2',2" - nitrile triethanol butyrate and shale oil. When the rubber specimens were swelled in plasticizers at 145°C for 1.5 hours and then kept at 25°C for 24 hours, the plasticizers "bled out." This indicates that the plasticizers migrate from the polyvinylchloride into the rubber mainly during vulcanization. Penta-

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412830

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ACCESSION NR: AP4023501

chlorodiphenyl and shale oil were found to be the best plasticizers since they form a stable single-phase system with rubber which shows no tendency to syneresis. These plasticizers also show the least susceptibility to "bleed no." Rubber swelling was found to be more dependent on the limits of compatibility than on the coefficient of diffusion of the plasticizers. Changes in mechanical protentias conform generally to the laws of molar and delure in a spatial than a local smallest by the weight content of the plasticizers which tonside protecties of the rubber samples showed deviations from the permitting the content of the plasticizers on the resistivity and specific industries of the content of the plasticizers on the resistivity and specific industries of the content of the content of the plasticizers on the degree of polarity of the classicizers on the degree of polarity of the classicizers and 2 figures.

ASSOCIATION: Nauchno-imsledovatel'skiy institut kabel'knoy promyshlennosti (Scientific Research Inmititute of the Cable Industry); Moskovskiy oblastnoy pedagozicheskiy institut im N. K. Krupskoy (Moscov Regional Pedagozical Institute); Moskovskiy institut khimicheskogo mashinostroveniya (Moscow Chemical Machine Tabling Institute)

Card 2/3

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0004128300

ACCESSION NR: AP4037179

8/0069/64/026/003/0362/0366

AUTHOR: Fedoseyeva, Ye. G.; Fel'dman, R. I.; Sokolov, S. I.

TITIE: Interaction of polymer with plasticizer

5. The adhesive properties of polyvinylchloride plasticates and their effect on rubbers in contact with them

SOURCE: Kolloidny*y shurnel, v. 26, no. 3, 1964, 362-366

TOPIC TAGS: polymer plasticizer interaction, polyvinylchloride plasticate, rubber, resin, rubber vulcanisation, rubber thermal aging, PVC film adhesion, polychloroprene, perchlorovinyl resin, nitrile rubber, rubber modifyer

ARSTRACT: In this series of studies the plasticizer was introduced into the rubber at swelling time or into the resin mix before vulcanization. Such systems may serve as models, since under these conditions the resin comes into contact not with the pure plasticizer but with plasticized polyvinylchloride (PVC) paste, films, etc. from which the plasticizer migrates into the resin. The composition of the PVC test pastes is tabulated. In the present work the influence of PVC pastes added with other compounds (dibutylphthelate, diootylphthelate, etc.) and films

Card 1/3

APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R0004128300

ACCESSION MR: APA037179

from these materials on properties of the rubbers TS-35 and SK-50 and the adhesive force between the boundary materials were studied. For the preparation of the specimens a 0.5 mm PVC paste layer was placed on top of the 2 mm thick resin mixture, the entire mass vulcanized in foil and subjected to thermal aging. The two layers were then separated and the rubber tested for mechanical properties and specific cubic resistance. The adhesion of paste to resin was determined with a dynamometer. The least amount of adhesion was found in pastes containing only PVC and plasticizer, best in those with PVC and perchlorovinyl resin or rubbers. Such contact did not change tensile strength appreciably, aging at 100C took place almost in the same way in the presence or in the absence of contact. The specific cubic electrical resistance somewhat diminished in the presence of polar plasticizers, whereas it increased during thermal aging of rubber in contact with polyvinylchloride plasticates containing polystyrene, polymethylmetacrylate and their monomers. The addition of modifiers to PVC pastes after vulcanization, had a favorable effect on the adhesion to rubber of films forming on gelation of the pastes. The best effect was produced by chlorinated polychloroprime, perchlorovinyl resin, polychloroprene and nitrile rubber. Orig. art. has: 1 figure and 4 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institute kabel'noy promy*shlennosti Moskva

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"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412830

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L 00987-66 ENT m)/EPF(c)/ENP(j)/T/ENA(c) ACCESSION NR: AP5020233 UR/0069/65/027/004/0619/0623 541.64 AUTHOR: Fel'dman, R. Aggregation states of macromolecular compounds. TITLE: 10. Polytetrafluoroetl SOURCE: Kolloidnyy zhurnal, v. 27, no. 4, 1965, 619-623 TOPIC TAGS: polytetrafluoroethylene, aggregate state, crystallinity, linear expansion coefficient, thermal dependence ABSTRACT: In view of the known temperature transitions in the crystalline and aggregate states of polytetrafluoroethylene (PTFE), the temperature dependence of the coefficient of linear thermal expansion of this polymer was studied in detail. This study is important from both the theoretical point for supplying new data for colloidal chemistry and for the theory of aggregate states of polymers, and from the purely practical point of using this polymer for technical purposes. The coefficient of linear thermal expansion a was plotted against temperatures; readings were taken at each degree centigrade up to 300C. The rate of the temperature increase or decrease (in the reversed cycles) was 3-5 min per degree centigrade. Some experiments lasted 52 days. Measurements were made by a dynamometer serving as dilatometer. Card 1/2

"APPROVED FOR RELEASE: Monday, July 31, 2000

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ACCESSION NR: AP50	20233			6	,
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States of aggregation of high-molecular weight compounds.

Part 10: Polytetrafluoroethylene. Koll. zhur. 27 no.4:
619-623 JI-Ag '65. (MIRA 18:12)

1. Moskovskiy oblastnoy pedagogicheskiy institut imeni N.K.

Krupekoy i Moskovskiy institut khimicheskogo zashinostroyeniya.

Suimitted February 19, 1964.

VEDERNIKOVA, N.F.; SOKOLOV, S.I.; FEL'DMAN, R.I.; SHCHEGOLEVSKAYA, N.A.

Interaction of polymers with plasticizers. Part 6: Effect of plasticizers on the deformation birefringence of polymethyl methacrylate. Koll.zhur. 27 no.3:326-330 My-Je *65.

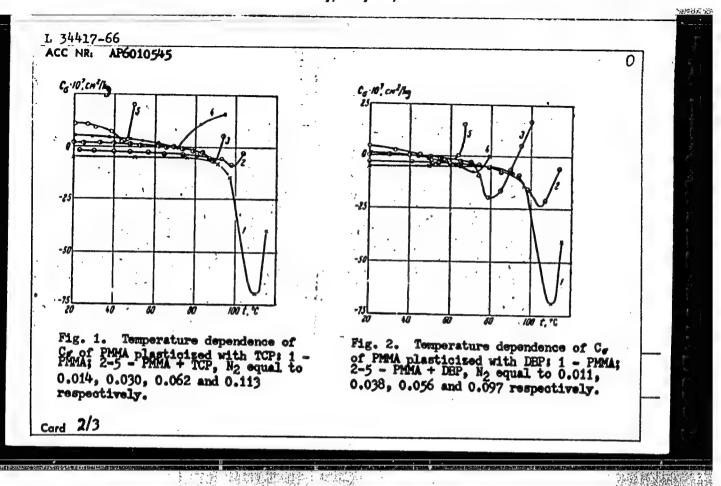
(MIRA 18:12)

1. Moskovskiy institut khimicheskogo mashinostroyeniya i

Moskovskiy oblastnoy pedagogicheskiy institut imeni Krupskoy.

Submitted Dec. 28, 1963.

EWI(m), TOWP(+)/ ACC NR. AP6010545 WW/RM SOURCE CODE: UR/0069/65/027/006/0806/0809 AUTHOR: Vedernikova, N. F.; Sokolov, S. I.; Fel'dman, R. I.; Shohegolevskaya, N. A. ORG: Moscow Institute of Chemical Machinery (Moskovskiy institut khimicheskogo mashinostroyeniya); Moscow Chlast Polytechnic Institute im. N. K. Krupskaya (Moskovskiy oblastnoy pedagogicheskiy institut) Interaction of polymers with plasticizers. Part 7. Thermooptical characteristics of the effect of plasticizers/on polymethyl methacrylate 47 SOURCE: Kolloidnyy shurnal, v. 27, no. 6, 1965, 806-909 46 B TOPIC TAGS: plasticizer, polymethylmethacrylate, double refraction, phosphata ester ABSTRACT: In order to clarify the specificity of the optical effect of plasticisation, the simultaneous influence of plasticizers and temperature on the birefringence of binary systems composed of a polymer and a low-molecular plasticizer was investi-Thermooptical measurements were made in the two systems polymethyl methacrylate (PMMA)-dibutyl phosphate (DBP) and PMMA-trioresyl phosphate (TCP). The curve representing the temperature dependence of the optical birefringence coefficient C of polymethyl methacrylate (see Fig. 1 and 2) is shifted by the presence of the plasticiser in the direction of the temperature axis toward lower values, in conformity with the mole fraction rule, and in the direction of the C, exis toward more VDC: 541.64:535.551 Card 1/3



"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412830

I. 34417-66 ALC NR. AP6010545

positive values. The shift along the C, axis depends on the composition and structure of the plasticizer molecules. It is concluded that the influence of the plasticizers introduced into PMMA is dual in nature: in some respects, it is related to a change in the state of aggregation of the polymer upon addition of the plasticizer, and is governed by known general rules established by studying the mechanical properties; in other respects, the plasticizer affects the optical properties according to its individual characteristics, which depend on the composition and structure of its molecules. Orig. art. has: 3 figures.

SUB CODE: 07/ SUBM DATE: 26Jun64/ ORIG REF: 004/ OTH REF: 001

Cord 3/3 BLG

ACC NR

AP6037030

SOURCE CODE: UR/0069/66/028/006/0888/0893

AUTHOR: Felidman, R. I.; Fedoseyeva, Ye. G.; Sokolov, S. I.

ORG: Moscow Oblast Pedagogical Institute im. N. K. Krupskaya (Moskovskiy oblastnoy pedagogicheskiy institut); Scientific Research Institute of the Cable Industry (Nauchno-issledovatel'skiy institut kabel'noy promyshlennosti); Moscow Institute of Chemical Machinery (Moskovskiy institut khimicheskogo mashino-

TITLE: Properties of filled polymers. Part 2. Combined effect of fillers and softeners on properties of polyisobutylene

SOURCE: Kolloidnyy zhurnal, v. 28, no. 6, 1966, 888-893

TOPIC TAGS: polymer, filled polymer, polymer physical chemistry, filler, polyisobutylene, molecular weight, tensile strength, hardness, plasticity, £105716179

ABSTRACT: The results are presented of investigation on the combined effect of fillers and softeners on the properties of polyisobutylene with average molecular weights of 200 000, 150 000, and 100 000 estimated according to tensile strength residual and elongation at rupture hardness, elasticity at 70 and 130C, and .UDC: 541.182:539.412

ACC NR: AP6037030

compressive strain. The dependence of tensile strength and (rupture and residual) elongation on the quality of the softener for a system composed of polyisobutylene, lamp black and mineral wax, passes through the maximum, while the values of hardness and plasticity both at 70 and 130C increased. The results obtained may be explained by the complex effect of softeners on the properties of a filled polymer. For systems composed of polymer, softeners, and fillers, complete additivity of the properties was observed on the plots of filler composition property diagram with respect to tensile strength, plasticity, and rupture and residual elongation, when the filler quantity in the compounds does not exceed the optimum value. Orig. art. has: 4 figures. [Based on authors' abstract]

SUB CODE: 11/SUBM DATE: 26Aug65/ORIG REF: 008/

Card2/2

GOGOLEVA, T.Ya.; BOROMENSKIY, S.S.; Prinimali uchastiye: YEFIMENKO, L.Ya.; DEMENKO, Yu.V.; FEL'DMAN, R.L.

Thionaphthene distribution during the processing of the naphthalene fraction according to the drum-press flow sheet. Koks i khim. no.3:46-48 '64. (MIRA 17:4)

1. Ukrainskiy uglekhimicheskiy institut.

ACC NR: AP6021775

SOURCE CODE: UH/Ohi3/66/000/012/0035/0035

INVENTOR: Adamovich, A. I.; Poznanskaya, E. M.; Feltdman, R. M.; Sarenko, A. S.;

Mikhaylova, N. P.; Tsirlina, S. S.

ORG: None

TITLE: A method for producing diethylaminoethyl ester of diphenylacetic acid (base of adiphenine). Class 12, No. 182715

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 35

TOPIC TAGS: drug, ester

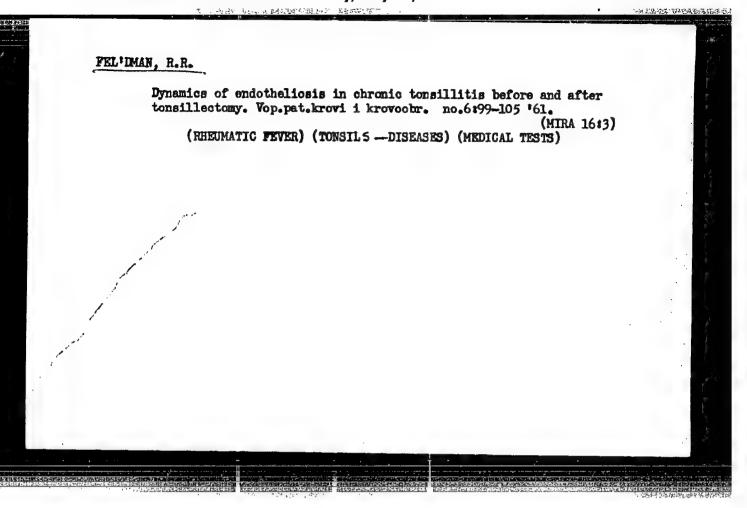
ABSTRACT: This Author's Certificate introduces a method for producing diethylaminoethyl ester of diphenylacetic acid (base of adiphenine). The technological process is simplified by interacting diethylaminoethyl chloride in an aqueous solution with an alkali metal salt of diphenylacetic acid.

SUB CODE: 07, 11/ SUBM DATE: 15Jul64

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000412830

"Report on the Work Conducted in 1950 by the Stomatological Clinic of the 2nd Moscow Madical Inst. and of the Stomatologic Dept. of the 1st Moscow City Hospital," Stomatologiya, No.1, 1952



POKOTINSKIY, 1.C.; FELIMAN, R.R.

Compound therapy for metastasis of cancer of the breast. Trudy LPMI 31 no.2:136-138 '63. (MIRA 17:10)

I. Iz rentgenologicheskogo otdeleniya Ohmyedinennoy bolinitsy imeni Kuybysheva, Leningrad i kafedry fakulitetskoy terapii Leningradskogo pediatricheskogo meditsinskogo instituta.

FEL! DMAN, R.R.

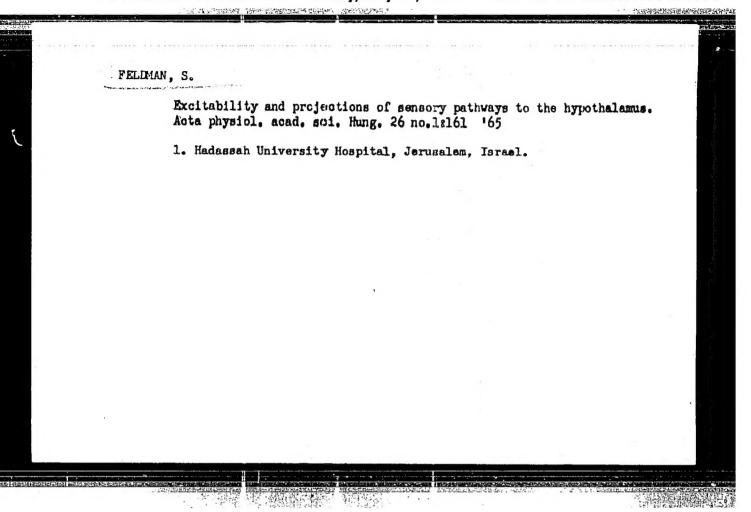
Late observations of the dynamics of endotheliosis following tonsillectomy. Trudy LPMI 31 no.2:164-174 '63. (MIRA 17:10)

l. Iz kardiorevmatologicheskogo otdeleniya Ob"yedinennoy bol'nitsy imeni "uybysheva i kafedry fakul'tetskoy terapii Leningradskogo pediatriches-kogo meditsinskogo instituta.

OREKHOV, Vladimir Vasil'yevich; FEL'EMAN, Roman Vsevolodovich; KUZNETSOV,
G.A., red.; ZAYTSEVA, L.A., Valum. 1942.

[Repair of televison receivers] Remont televizorov. Moskva,
Vses. koop. izd-vo, 1960. 247 p. diagrs. (MIRA 1419)

(Televiaton—Repairing)



FEL'DMAN, S.B., vrach (Moskva)

Principles and technics of electrocardiography by N.G. Mikulin.

Reviewed by S.B. Fel'dman. Klin.med. 36 no.8:158-159 Ag '58

(HIRA 11:9)

1. Blektrokardiograficheskiy kabinet kliniki propedevtiki vnutrennikh bolezney I Moskovskogo ordena Lenina meditisnskogo instituta imeni I.M. Sechenova (for Fel'dman).

(ELECTROCARDIOGRAPHY)